

PATENT

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W. Lawson
6/5/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Present Application:

Applicant : Ole Bentz
Attorney Docket No.: 500845.01
Filed : Concurrently herewith
Title : TEXTURE ADDRESSING CIRCUIT AND METHOD

PRELIMINARY AMENDMENT

Box Patent Application
Commissioner of Patents
Washington, D.C. 20231

Sir:

Please amend the above-identified application as follows:

In the Abstract:

Amend the abstract of the disclosure as follows:

a!

A texture addressing circuit and method for calculating texture coordinates according to various texture addressing modes for texture maps having arbitrary sizes. Texture coordinates are calculated from input texture coordinate values the texture addressing circuit receives and that are located in one of a plurality of predefined input ranges. The texture addressing circuit includes a plurality of coordinate calculation circuits to calculate coordinate output values for each of the input coordinate ranges and to provide the values to a selection circuit from which an output texture coordinate is selected. An output texture coordinate is selected based on the sign of the input texture coordinate and the sign of the calculated texture coordinate values. [A texture coordinate value for each of the input coordinate ranges is calculated in accordance with the sign of the input coordinate values, and from the calculated texture coordinate values, an output texture coordinate is selected based on the sign of the input texture coordinate and the sign of the calculated texture coordinate values. The texture addressing circuit for calculating texture coordinates includes a plurality